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ensure an emcient and quality search, please attach a AN-YVES BONNE Tatle of Invention: AURBY PASCAL Euventors (please provide full names): THE	copy of the cover sheet, claims, and abstract or fill out the following: FOY; SYBILLE LECOANET; JEAN-PIERRE E TEANNIN ERRY BAUSSANT
Executors (picase provide full flames).	
Earliest Priority Date: 11-06-9	8
Search Topic: Please provide a detailed statement of the search topic, and ected species or structures, keywords, synonyms, acronyn sfine any terms that may have a special meaning. Give	d describe as specifically as possible the subject matter to be searched. Include the rus, and registry numbers, and combine with the concept or utility of the invention. examples or relevant citations, authors, etc, if known.
or Sequence Scarches Only. Please include all pertine eappropriate serial number.	nt information (parent, grandchild, divisional, or issued patent numbers) along with
Please ask MS. BEVERLY S	HEARS to perform this search.
Please see attached claims with and synonyms provided.	th key words highlighted and/or Examples
Please include the following of	databases: Embase, Medline, Biosis, CA us, Dialog 35, 65, 77, 144, 256, 266, 440, and 60.
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outer nembrane protein A

- A process of using an enterobacterium OmpA 25. for preparing thereof, fragment protein, or a composition intended for specific targeting biologically active substance, which is associated with cells, wherein antigen-presenting enterobacterium OmpA protein, or a fragment thereof, is internalized into the antigen-presenting cells.
- wherein 25, of claim process The 26. enterobacterium OmpA protein, or a fragment thereof, binds specifically to antigen-presenting cells.
- The process of claim 25, wherein said antigenpresenting cells are chosen from dendritic cells, monocytes and B lymphocytes.
- The process of claim 27, wherein said antigen-28. presenting cells are dendritic cells.
- wherein said 2.5, of claim process The enterobacterium OmpA protein, or a fragment thereof, is obtained from a culture of said enterobacterium, using an extraction process.
- wherein said claim 25, of process The 30. enterobacterium OmpA protein, or a fragment thereof, is obtained by a recombinant process.
- claim 25, wherein of process The 31. enterobacterium is Klebsiella pneumoniae.
- The process of claim 31; wherein the amino acid sequence of said OmpA protein, or a fragment thereof, comprises:
- sequence having sequence acid a) the amino SEQ ID No 2;
- the amino acid sequence of a sequence having at b) least 80% homology with the sequence SEQ ID No 2;
- the amino acid sequence of a fragment, of at least c) 5 amino acids, of a sequence as defined in a) or b).



- 33. The process of claim 25, wherein said biologically active substance is chosen from peptides, lipopeptides, polysaccharides, oligosaccharides, nucleic acids, lipids and chemical substances.
- 34. The process of claim 33, wherein said biologically active substance is coupled by covalent attachment with said OmpA protein, or a fragment thereof.
- 35. The process of claim 34, wherein the coupling by covalent attachment is chemical coupling.
- 36. The process of claim 35, wherein one or more attachment elements are introduced into said OmpA protein, or a fragment thereof, and/or into said biologically active substance, in order to facilitate the chemical coupling.
- 37. The process of claim 36, wherein said attachment element introduced is an amino acid.
- 38. The process of claim 34, wherein said biologically active substance coupled by covalent attachment with said OmpA protein, or a fragment thereof, is a recombinant chimeric protein resulting from the expression of a nucleic acid construct encoding said biologically active substance and said OmpA protein, or a fragment thereof.
- 39. The process of claim 38, wherein said biologically active substance is an antigen or a hapten.

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